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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,678	04/16/2004	Mikako Ujiie	XA-9730A	8657
181	7590 06/02/2005	EXAMINER		INER
MILES & STOCKBRIDGE PC			PIZARRO CRESI	PO, MARCOS D
SUITE 500			ART UNIT	PAPER NUMBER
MCLEAN, VA 22102-3833			2814	

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/825,678	UJIIE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marcos D. Pizarro-Crespo	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 April 2004.						
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>31 and 32</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>31 and 32</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		•				
9)⊠ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>16 April 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 10/255,163.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da	ite atent Application (PTO-152)				
Paper No(s)/Mail Date <u>4/16/04</u> .	6)  Other:					

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Attorney's Docket Number: XA-9730A

Filing Date: 4/16/2004

Claimed Priority Dates: 8/22/2002 (Divisional of 10/255,163)

9/18/2001 (JP 2001-283717)

Applicant(s): Ujiie, et al.

Examiner: Marcos D. Pizarro-Crespo

## DETAILED ACTION

This Office action responds to the preliminary amendment filed on 4/16/2004.

## Acknowledgment

1. The preliminary amendment filed on 4/16/2004 has been entered. The present Office action is made with all the suggested amendments being fully considered. Accordingly, pending in this Office action are claims 31 and 32.

## Drawings

- 2. Figures 34-47 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character **1** has been used to designate both a wiring substrate (see, e.g., fig. 35) and a solder resist (see, e.g., fig. 34).
- 4. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet

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submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings

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will not be held in abeyance.

Specification

5. The disclosure is objected to because of the following informalities:

- The title of the invention is not descriptive. A new title is required that is

clearly indicative of the invention to which the claims are directed.

- The current status of the parent application was not included in the

preliminary amendment to the specification. A statement reading: "This

application is a continuation of application ser no. 10/255,163, filed 8/22/2002,

now U.S. Patent no. 6853089." Should be entered following the title of the

invention or as the first sentence of the specification.

6. Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

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8. Claims 31 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Toyoshima (JP 2000-286271).

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- 9. Regarding claim 31, Toyoshima shows (see, *e.g.*, fig. 1 and par. 0009-0011) all aspects of the instant invention including a method of manufacturing a semiconductor device comprising the steps of:
  - ✓ Providing a wiring substrate 2a including:
    - A main surface
    - An insulating film 4a formed on the main surface
    - A plurality of electrodes **3a** formed on the main surface
    - A surface of the plurality of electrodes 3a being exposed from the insulating film 4a
  - ✓ Providing a semiconductor chip 6a having:
    - A main surface
    - A back surface
    - A plurality of semiconductor elements
    - A plurality of electrodes 7a being formed on the main surface of the chip
  - ✓ Forming a groove 13 between the electrodes 3a on the substrate 2a and the chip 6a
  - ✓ After the step of forming the groove 13, fixing the chip 6a to the insulating film
     4a through a pasty adhesive 5a
  - ✓ After the fixing step, connecting one end of a plurality of conductive wires 8a to the plurality of electrodes 3a on the main surface of the wiring substrate 2a

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✓ Covering the chip 6a, the main surface of the substrate 2a, and the wires 8a

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with a sealing resin 9a

Wherein:

✓ The fixing step is performed so as to allow a protruding portion of the pasty

adhesive 5a flowing out to the outside of the chip 6a to stay in the groove 13

so as not to reach the electrodes 3a on the substrate 2a (see, e.g., fig. 1)

✓ The pasty adhesive 5a is formed on a peripheral surface of the chip 6a as a

slope surface by a raised portion of the adhesive **5a** (see, e.g., fig. 1)

10. Regarding claim 32, Toyoshima shows that the wires 8a are electrically

connected between the electrodes 3a on the substrate 2a and the electrodes 7a on the

chip 6a (see, e.g., fig. 1).

Conclusion

11. Papers related to this application may be submitted directly to Art Unit 2814 by

facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814

Fax Center. The faxing of such papers must conform to the notice published in the

Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center

number is (703) 872-9306. The Art Unit 2814 Fax Center is to be used only for papers

related to Art Unit 2814 applications.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcos D. Pizarro-Crespo at (571) 272-1716 and

between the hours of 9:30 AM to 8:00 PM (Eastern Standard Time) Monday through

Thursday or by e-mail via Marcos.Pizarro@uspto.gov. If attempts to reach the

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examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.

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- 13. Any inquiry of a general nature or relating to the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 14. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 438/106-127	5/31/2005
Other Documentation: PLUS Analysis	5/31/2005
Electronic Database(s): EAST (USPAT, EPO, JPO)	5/31/2005

Marcos D. Pizako-Crespo

Patent Examiner Art Unit 2814

571-272-1716

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